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Scientist named fellow of Institute of Physics

by Grace Janiszewski, Sensors Directorate

HANSCOM AIR FORCE BASE, Mass. — A scientist from Air Force Research Laboratory's Sensors Directorate has been named a fellow of the Institute of Physics, Britain's professional organization for physicists.

Dr. Richard A. Soref has been a pioneer in silicon-based photonics and optoelectronics — the science and technology of building light-emitting, light-detecting, and light-guiding devices on the silicon wafers used in computers — for more than a decade. This research is now entering mainstream device applications. He invented many types of waveguides on silicon, and also waveguide-integrated optical switches.

"I am honored to receive this recognition," said Dr. Soref. "I am flattered to join the elite group of scientists who are fellows of the Institute of Physics."

In recent years, Dr. Soref has invented laser structures based on semiconductor materials. He has managed many Air Force research contracts, including two recent DARPA-funded projects that each had a value of \$1 million.

Author of 115 refereed papers and 7 book chapters, Dr. Soref also holds 49 US Patents and is a recipient of the Air Force Basic Research Award. He is also a fellow of the Air Force Research Laboratory. @



Dr. Richard A. Soref